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10657797 **Application Number** 2003-09-08 Filing Date **INFORMATION DISCLOSURE** First Named Inventor William C. Moyer STATEMENT BY APPLICANT 2183 Art Unit (Not for submission under 37 CFR 1.99) Daniel H. Pan **Examiner Name** Attorney Docket Number SC13071TH

	U.S.PATENTS										
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear					
a	1	6986023	B2	2006-01-10	Paver et al.						
4	2	6950922	B2	2005-09-27	Chung et al.						
N	3	6292886	B1	2001-09-18	Makineni et al.						
1	4	6170001	B1	2001-01-02	Hinds et al.						
n	⁄5	6081880		2000-06-27	Sollars						
6	6	5903769		1999-05-11	Arya						
7	7	5870596		1999-02-09	Yoshida						
h	8	5838984		1998-11-17	Nguyen et al.						

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10657797 Application Number 2003-09-08 Filing Date INFORMATION DISCLOSURE First Named Inventor William C. Moyer STATEMENT BY APPLICANT Art Unit 2183 (Not for submission under 37 CFR 1.99) Daniel H. Pan **Examiner Name** SC13071TH Attorney Docket Number 1998-08-25 Park et al. 9 5799163 Watanabe et al. 10 56669013 1997-09-16 Apperley et al. 1997-09-02 5664145 11 Edgington et al. 1996-06-25 12 5530804 Yoshida et al. 13 5475852 1995-12-12 Greyzck 1994-11-01 14 5361354 Daniel et al. -1993-04-06 5201056 1990-02-20 Honma 4903195 1987-06-30 Omoda et al. 4677547 17 If you wish to add additional U.S. Patent citation information please click the Add button.

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U.S.PATENT APPLICATION PUBLICATIONS

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N	1	20050055535	A1 .	2005-03	-10	Moyer et al.					
4	2	20030167460	A1	2003-09	-04	Desai et al.					
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Initials*	Number Kind Codes (If known)		1	of Cited Document	Cited	locument D-YYYY	Passages or Relevant Figures A	ppear	
10	EA	6,647,546	B1	Hinko	r et al.	11-11-2			
-	EB	6,513,107	B1	Ansar		01-28-2		· .	
	EC	6.381,687	B2		strom st al.	04-30-2		· · · · · · · · · · · · · · · · · · ·	
	ED	5,390,352	<u> </u>	Kinos		02-14-1			
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5/	DA	US -6,598,221 B1		07-22-	2003 ·	Pena	toquet et al.			
6/	08	US -5,450,607		09-12-			Jczyk et al.			
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Please type a plus sign (+) inside this box. Substitute for form 1449A/PTO Complete If Known Application Number 10/857,797 INFORMATION DISCLOSURE Filing Date September 8, 2003 STATEMENT BY APPLICANT First Named Inventor William C. Moyer Group Art Unit 2183 (use as many sheets as necessary) Examiner Name Unknown SC13071TH Attorney Docket Number Street 1 1 of 1 1 U. S. PATENT DOCUMENTS U.S. Patent Document Name of Patentse or Applicant Date of Publication of Pages, Cotumns, Lines, Where Relevant Examiner Cite No. Initials of Cited Document **Cited Document** Passages or Relevant Figures Appear Kind Code² Number MM-DD-YYYY (If known) 12-16-2003 CA 6,665,749 **B**1 Ansari **B1** 02-20-2001 CB 6,192,384 Daily et al. CC 4,128,880 Cray Jr. 12-05-1978 FOREIGN PATENT DOCUMENTS Foreign Patent Document Name of Patentee of Date of Publication Examiner Cite No. Pages, Columns, Lines, Applicant of Cited of Cited Document Where Relevant Passages or Initials* Office Number 4 Kind Code? Document MM-DD-YYYY Relevant Figures Appear (if known) Examiner Date Signature Considere EXAMINER: hilled II reference considered, whether or not chabon to in contempance with MPEP 809. Draw the through elisticity is not in a Include copy of this form with next communication to applicant. * Unique clusion designation number. * See Kinds of U.S. Pateral Documents. * Enter Otice that issued the document, by the bro-leggicode (WIPO Standard ST.3). * For Japanese patent documents, the industrial by the proprietate symbols as indicated on the document under WIPO Standard ST. 16 II possible. * Applicant to to place a check mark harry's English Language Translation is altached.

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I,	ВА	TALLA, DEEPENDRA; "Architectural Techniques to Accelerate Multimedia Applications on General-Purpose Processors"; University of Texas Doctoral Disertation: August, 2001; pp 94-125 (Chapters 6 and 7); University of Texas, Austin, Texas.	
9	BB	TALLA, DEEPENDRA; "Bottlemecks in Multimedia Processing with SIMD Style Extensions and Architectural Enhancements"; IEEE Transactions of Computers; August, 2003; pp 1015-1031; Vol. 62, No 8; IEEE	
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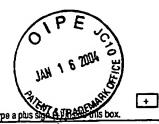
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4	BB	TALLA, DEEPENDRA; "BottleNecks in Multimedia Processing with SIMD Style Extensions and Architectural Enhancements"; IEEE Transactions of Computers; August, 2003; pp 1015-1031; Vol. 62, No 8; IEEE
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9	AB	TALLA, DEEPENDRA; "Bottlenecks in Multimedia Processing with SIMD Style Extensions and Architectural Enhancements"; IEEE Transactions of Computers; August, 2003; pp 1015-1031; Vol. 62, No 8; IEEE	
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			U. S. PATENT DOCU	MENTS	
Examiner Initials*	Cite No. 1	Document Number Number -Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
n	AA	US -6,202,130	03-13-20001	Scales et al.	
4	AB	US -5,887,183	03-23-1999	Agarwal et al.	
h	AC	US -5,764,787	06-09-1998	Nickerson	
6	AD	US -4,744.043	05-10-1988	Kloker	
a	AE	US -4,918,600	04-17-1990	Harper et al.	
0	AF	US -5,206,822	04-27-1993	Taylor	
	AG	US -5,697,788	12-16-1997	Ohta	
2	AH	US -5,719,998	02-17-1998	Ku et al.	
Î.	Al	US -5,717,947	12-10-1998	Gallup et al.	
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1, ,	AJ	WULF, WM. A., "Evaluation of the WM Architecture", ACM; 7/92; pp 382-390.	·				
11 / C	AK	Related application number 09/591,938 filed June 12, 2000					
1,	AL	Related application filed concurrently herewith, attorney docket number SC13053TH					
6	AM	Related application filed concurrently herwith, attorney docket number SC13074TH					
4/	AN	Related application filed concurrently herewith, attorney docket number SC13075TH					
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